

SCOPE OF CLAIMS

1. An ultrasound probe comprising: transducers for transmitting and receiving an ultrasound respectively located in
5 correspondence with adjacent positions of transmission and reception; and a one- or two-layer flexible circuit board located in correspondence with the positions of transmission and reception, in which signal lines for supplying a transmission signal and extracting a reception signal to/from the positions
10 are installed in a longitudinal direction of the transducers at a predetermined angle, wherein the flexible circuit board has slits dividing signal lines at each of the positions at the predetermined angle, and each section of the flexible circuit board divided by the slits are spirally wound.
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2. An ultrasound probe according to claim 1, wherein a member is provided around each section spirally wound of the flexible circuit board.
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3. An ultrasound probe according to claim 2, wherein the member is an insulating material covering a circumference of each section of the flexible circuit board and a first shield material, or an insulating material to which a layer of metallic powder is evaporated, covering the circumference of each part .
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4. An ultrasound probe according to claim 2, wherein the member is a single second shield material or a protection material covering an outer circumference of bundled sections of the flexible circuit board, or a protection material to which a

layer of metallic powder is evaporated on its surface.

5. An ultrasound probe according to claim 3, wherein the member includes a single second shield material or a protection
5 material covering the outer circumference of bundled sections of the flexible circuit board, or a protection material to which a layer of metallic powder is evaporated on its surface.

6. An ultrasound probe according to claim 4, wherein the
10 protection material is a flexible tube.

7. An ultrasound probe according to claim 4 or 5, wherein the protection material covers the outer circumference of bundled sections of the flexible circuit board, which has a stiff
15 section and a flexible section.

8. An ultrasound probe according to claim 3, wherein the member includes a single second shield material covering the outer circumference of bundled sections of the flexible circuit
20 board and a protection material installed inside or outside the second shield material, or a protection material to which a layer of metallic powder is evaporated on its surface.

9. An ultrasound probe according to claim 2, wherein a
25 signal line is provided on one layer of the two-layer flexible circuit board, and a ground line is provided on the other layer.